Claim(s)

What is claimed is:

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- 1. An interconnect system for conveying signals between first and second nodes within an electronic device and a third node external to said electronic device, the interconnect system comprising:
 - a first conductive path linking said first node to said third node; and
- a second conductive path linking said second node to 10 said third node, wherein said first and second conductive path are substantially inductive.
 - The interconnect system in accordance with claim 1 wherein said electronic device is an integrated circuit, wherein said first and second nodes are bond pads implemented on said integrated circuit,

wherein said first conductive path comprises a first bond wire,

wherein said second conductive path comprises a second 20 bond wire.

- 3. The interconnect system in accordance with claim 2 wherein inductances of said first and second bond wires are sized to substantially optimize a frequency response characteristic of said interconnect system.
- 4. The interconnect system in accordance with claim 2 further comprising a capacitive element connected to said third node, wherein capacitance of said capacitive element and inductances of said first and second bond wires are sized to substantially optimize a frequency response characteristic of said interconnect system.
- 5. The interconnect system in accordance with claim 2
 further comprising a capacitive element connected to said
 third node, wherein capacitance of said capacitive element
 and inductance of said first and second bond wires are sized
 so that the interconnect system has a frequency response

substantially similar to a frequency response of a Butterworth filter.

- 6. The interconnect system in accordance with claim 2 further comprising a capacitive element connected to said third node, wherein capacitance of said capacitive element and inductance of said first and second bond wires are sized so that the interconnect system has a frequency response substantially similar to a frequency response of a Chebyshev filter.
 - 7. The interconnect system in accordance with claim 1 wherein inductances of said first and second conductive paths are sized to substantially optimize a frequency response characteristic of said interconnect system.

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- 8. The interconnect system in accordance with claim 1 further comprising a capacitive element connected to said third node, wherein capacitance of said capacitive element and inductances of said first and second conductive paths are sized to substantially optimize a frequency response characteristic of said interconnect system.
- 9. The interconnect system in accordance with claim 1
 25 further comprising a capacitive element connected to said
 third node, wherein capacitance of said capacitive element
 and inductances of said first and second conductive paths are
 sized so that the interconnect system has a frequency
 response substantially similar to a frequency response of a
 30 Butterworth filter.
 - 10. The interconnect system in accordance with claim 1 further comprising a capacitive element connected to said third node, wherein capacitance of said capacitive element and inductances of said first and second conductive paths are sized so that the interconnect system has a frequency response substantially similar to a frequency response of a Chebyshev filter.

.11. The interconnect system in accordance with claim 10 wherein said third node comprises a trace on a printed circuit board, and

wherein said capacitive element comprises a via in said printed circuit board, said via being connected to said trace.

12. The interconnect system in accordance with claim 1 wherein said electronic device is an integrated circuit,

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wherein said first and second conductive paths are implemented by a spring contact comprising:

- a tip for contacting said third node,
- a first conductive leg connected between said first node 15 and said tip, and
 - a second conductive leg connected between said second node and said tip.
- 13. The interconnect system in accordance with claim 12
 20 wherein inductances of each of said first and second
 conductive legs are sized to substantially optimize a
 frequency response characteristic of said interconnect
 system.
- 14. The interconnect system in accordance with claim 12 further comprising a capacitive element linked to said third node, wherein capacitance of said capacitive element and inductances of said first and second conductive legs are sized to substantially optimize a frequency response characteristic of said interconnect system.
 - 15. The interconnect system in accordance with claim 14 wherein said third node comprises a contact point on a printed circuit board trace for receiving said tip and wherein said capacitive element comprises a printed circuit board via connected to said printed circuit board trace.

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- 16. The interconnect system in accordance with claim 12 wherein said conductive legs comprise resilient material.
- 17. The interconnect system in accordance with claim 12 further comprising a capacitive element connected to said third node, wherein capacitance of said capacitive element and inductance of said first and second conductive legs are sized so that the interconnect system has a frequency response substantially similar to a frequency response of a Butterworth filter.
 - 18. The interconnect system in accordance with claim 12 further comprising a capacitive element connected to said third node, wherein capacitance of said capacitive element and inductance of said first and second conductive legs are sized so that the interconnect system has a frequency response substantially similar to a frequency response of a Chebyshev filter.

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19. An interconnect system for conveying signals between first and second nodes internal to an integrated circuit and a third node external to the integrated circuit, the interconnect system comprising:

an inductor connected between said first node and said 25 second node, and

a conductor connected between said second node and said third node.

20. The interconnect system in accordance with claim 19
wherein said first node comprises a first bond pad
implemented on said integrated circuit,

wherein said second node comprises a second bond pad implemented on said integrated circuit, and

wherein said inductor consists of a bond wire connected 35 between said first and second bond pads.

- 21. The interconnect system in accordance with claim 19 wherein said inductor is implemented within said integrated circuit.
- 5 22. The interconnect system in accordance with claim 21 wherein said inductor comprises a lithographically defined conductive trace.
- 23. The interconnect system in accordance with claim 19
 10 further comprising a capacitive element connected to said
 third node, wherein capacitance of said capacitive element is
 sized to substantially optimize a frequency response
 characteristic of said interconnect system.
- 15 24. The interconnect system in accordance with claim 23,

wherein said third node comprises a printed circuit board trace, and

wherein said capacitive element comprises a printed circuit board via connected to said printed circuit board trace.

- 25. The interconnect system in accordance with claim 19 wherein the interconnect system has a frequency response substantially similar to that of a Butterworth filter.
 - 26. The interconnect system in accordance with claim 19 wherein the interconnect system has a frequency response substantially similar to that of a Chebyshev filter.

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